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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/744,868	01/29/2001	Hannu Aronsson	290.745USN	8733

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EXAMINER

ZHONG, CHAD

ART UNIT PAPER NUMBER

2152

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/744,868

Applicant(s)

ARONSSON, HANNU

Examiner

Chad Zhong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 23 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 24-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 24-40 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### FINAL ACTION

1. Claims 24-40 are presented for examination. This action has been made final. In Amendment, filed on 09/23/2005, claims 24, 26-27, and 30 are currently amended. New rejections are presented as follows.

2. Applicant's remarks filed 02/28/2005 have been considered but are found not persuasive.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371 (c) of this title before the invention thereof by the applicant for patent.

5. Claims 24-28, 30-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Kessenich et al. (hereinafter Kessenich), US 6,055,538.

6. As per claim 24, Kessenich teaches the system as claimed wherein an information delivery system that is connected to communication networks, comprising:

an information receiving module in communication with a plurality of communication networks, the information receiving module is for receiving a message from a sender in communication with a first communication network and for converting the message into a form suited for information processing units in communication with the information receiving module (Col. 4, lines 25-30; lines 40-45, wherein the server is the information receiving module receiving queries from clients on local/remote networks, further, the query is converted to server commands for processing by the server process; Col.

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13, lines 55-67, information receiving module can also be looked as the client browser, receiving query commands from clients).

detection means for detecting and distinguishing a first keyword from requested information in a request of the converted message (Col. 3, lines 15-22; Col. 4, lines 40-43; Col. 6, lines 60-65, keywords are based upon user queries);

an information routing module in communication with the information receiving module, the information routing module receiving the converted message having selection means for selecting a first information processing unit based on the first keyword (Col. 6, lines 8-15, lines 60-65; Col. 4, lines 24-27, lines 55-65; Col. 9, lines 45-65; Col. 10, lines 13-17, wherein the distributed system contains plurality of users, and database server processes, the database server processes direct the user queries to the appropriate database for access of database file 108. The database files are identified by their keyword/tokens and efficient database access is done through a hash table) and selecting a second information processing unit based on a second keyword (wherein plurality of keywords can be entered using the user query interface, see Fig. 4, item 416), the second keyword being different from the first keyword and the second information processing unit being different from the first information processing unit (keyword searches are different by definition, the users have the latitude to search a broad range of subject, information processing units are different database server processes, Col. 14, lines 40-55; In another embodiment, the information processing units are combination of the distributed database servers and databases themselves, Col. 4, lines 23-27; Col. 6, lines 7-15), the information module having directing means for selecting and directing (Col. 13, lines 65 – Col. 14, lines 5) the converted message to the first information processing unit based on first keyword received from the sender (Col. 14, lines 20-26, wherein the keywords defines the elements to search for in the query).

the first information processing unit having a database with a first command list; (Col. 8, lines 20-25, lines 35-50, maybe to select appropriate parser for the file being processed. The commands are

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supplied by the user or maybe invoked by operations of web browser, one sample command would be to filter out certain words as to focus on relevant content; see also Col. 20 – Col. 21's table, the table comprises multiple keyword requests to the database and database response, these request or commands are a sample of commands that the database can handle)

the first information processing unit having searching means for identifying the first command list associated with the first keyword; (Col. 8, lines 20-25, the exclusion command using user assigned keywords; Col. 20-Col. 21 table, teaches searching commands are associated with each keywords, the queries to the databases are based on keywords supplied by the users)

the second information processing unit having searching means for identifying the second command list associated with the second keyword (Col. 8, lines 20-25, the exclusion command using user assigned keywords; Col. 20-Col. 21 table, teaches searching commands are associated with each keywords, the queries to the databases are based on keywords supplied by the users);

means for downloading the first and second command lists; (Col. 6, lines 8-17, of Kessenich teaches wherein the commands can be all within a single system or they can be distributed, in event of the distributed model, information between databases are exchanged in conventional format)

first processing means for performing commands listed in the downloaded first command list associated with the first keyword; (Col. 6, lines 8-17, wherein the commands are downloaded from remote location; Col. 20 – Col. 21 table, where the commands are associated with the keyword)

second processing means for performing commands listed in the downloaded second command list associated with the second keyword (Col. 6, lines 8-17, wherein the commands are downloaded from remote location; Col. 20 – Col. 21 table, where the commands are associated with the keyword);

sending means for sending a reply with results of the performed commands; (Col. 4, lines 40-50)

an information sending modules in communication with the first and second information processing

units for converting the reply to a form suited for a receiver of the reply, the receiver being the sender or the receiver in communication with a second communication network (Col. 4, lines 45-50); and

an user interface in communication with the information delivery server, the user interface having a terminal connected to the information delivery system for creating and maintaining a service product in the information delivery system (Fig 4, user interface).

7. As per claim 25, Kessenich teaches the information sending module is in communication with an information control module for receiving an answer therefrom for sending the reply via a sending module to the receiver of the reply (Fig 10).

8. As per claim 26, Kessenich teaches the first information processing unit is in communication with a plurality of networks and is adapted to fetch information requested in the message, from the plurality of networks or data bases stored in the information delivery server (Col. 6, lines 10-15; Col. 4, lines 40-50).

9. As per claim 27, Kessenich teaches the first information processing unit is adapted to handle the message and the information requested by means of a service product that has a command list program comprising a list of functions (Col. 8, lines 1-50; Col. 20 – Col. 21, table).

10. As per claim 28, Kessenich teaches the command list program is stored in a database of the information delivery server (Col. 20 – Col. 21, table).

11. As per claim 30, Kessenich teaches the invention as claimed wherein a method of delivering information to communication networks, comprising:

providing a service product for fetching, processing or storing information (Col. 20 – Col. 21, table, the functions that are called are using user supplied keywords that are located on the server side);

presenting an operation program of the service product as a first command list and a second command

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list of functions to be performed (Col. 20 – Col. 21, table, wherein plurality of commands makes up the first and the second command list);

associating the first command list with a first keyword and the second command list with a second keyword (Col. 20 – Col. 21, table; there are functions located on the server side that are activated by user supplied keywords, for instance, a sample command QPATH<keyword> will return a list of file names in the presently open database file whose path names include the specified keyword substring);

storing the first command list and the second command list in a database (Col. 20 – Col. 21, table, wherein these commands are database commands, see for example, Col. 19, lines 20 – Col. 20, line 5);

receiving a first message comprising the first key word from a first communication network (Col. 20 – Col. 21 table, Col. 20, lines 5-15, wherein the client makes the requests based on the keywords);

detecting and distinguishing the first key word in the first message (Col. 9, lines 45-67) and searching for the first command list associated with the key word (Col. 20 – Col. 21, table, wherein the specific functions are activated by specific keywords, the keywords are identified and based on the client's function calls on the server side, appropriate searching/parsing of the command is done to activate such function on the server side. The function in turn returns the result of the query, Col. 20, lines 5-20);

selecting a second information processing unit based on the second keyword (Col. 9, lines 45-67; Col. 6, lines 5-15);

searching in the first information processing unit for the first command list associated with the first keyword; (Col. 20 – Col. 21, table; Col. 6, lines 10-15, wherein the query is done based on the keywords, the keywords is what dictates the further query and searches on the server side, Col. 20, lines 5-20);

searching in the second information processing unit for the second command list associated with the second keyword (Col. 20 – Col. 21, table; Col. 6, lines 10-15, wherein the query is done based on the keywords, the keywords is what dictates the further query and searches on the server side, Col. 20, lines 5-20; Col. 9, lines 45-67);

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finding and retrieving the first command list in the database; (Col. 20 – Col. 21, table; Col. 6, lines 10-15, the result of the query are returned to the user side Col. 20, lines 5-20; locate the function that was called based on user request)

performing functions of the first command list (Col. 20 – Col. 21, table; after the location of the functions on the server side, the function is carried out using the user supplied keywords; Col. 20, lines 5-20);

fetching information requested in the first message (Col. 20 – Col. 21, table, the functions corresponding to each keywords are performed and results returned);

preparing a first reply based on the fetched information (Col. 20 – Col. 21, table; Col. 4, lines 40-50; Col. 20, lines 5-20);

converting the first reply to a first form suited for the first communication network when the first reply is sent to the first communication network and converting the first reply to a second form suited for a second communication network when the first reply is sent to the second communication network (Col. 4, lines 40-50); and

sending the first reply to the first communication network or to the second communication network (Col. 4, lines 40-50).

12. As per claim 31, Kessenich teaches the method according to claim 30 wherein the method further comprises fetching information requested in the first message from a plurality of networks or from a database stored in the information delivery server (Col. 6, lines 10-15).

13. As per claim 32, Kessenich teaches the method according to claim 31 wherein the method further comprising processing the first message and fetching the information requested by means of the service product, including simple functions in a command list program, created in the information delivery system (Col. 20 – Col. 21, table).



14. As per claim 33, Kessenich teaches the method according to claim 30 wherein the method further comprises storing an information delivery product, comprising the information requested, in the database (Col. 20 – Col. 21, table).

15. As per claim 34, Kessenich teaches the method according to claim 33 wherein the method further comprises modifying the information delivery product with parameters added to fields of an information delivery product program (Fig 4, item 416).

16. As per claim 35, Kessenich teaches the method according to claim 33 wherein the method further comprises describing a function of the information delivery product with a binary program module and transferring the binary program module to an information delivery system (Col. 4, lines 40-50).

17. As per claim 36, Kessenich teaches the method according to claim 30 wherein method further comprises describing a function of an information delivery product with a program stored in the first communication network (Col. 20 – Col. 21, table).

18. As per claim 37, Kessenich teaches the method according to claim 30 wherein the method further comprises storing data from a set of information delivery products in an information delivery server (Col. 20 – Col. 21 table).

19. As per claim 38, Kessenich teaches the method according to claim 30 wherein the method further comprises storing data about a user, the data excluding identification data of the user (Col. 14, lines 1-34).

20. As per claim 39, Kessenich teaches the method according to claim 30 wherein the method further comprises constructing an information delivery product to conform to a mediated information and to prevent access to predetermined data in the first communication network (Col. 8, lines 15-24).

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21. As per claim 40, Kessenich teaches the method according to claim 30 wherein the method further comprises delaying the replies prior to sending the replies (Col. 4, lines 45-50, wherein the conversion takes time and the reply is delayed for at least this reason).

***Claim Rejections - 35 USC § 103***

22. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

23. Claims 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kessenich et al. (hereinafter Kessenich), US 6,055,538, in view of "Wireless LAN, What is a Wireless LAN" (hereinafter Wireless), October 22, 1997.

24. As per claim 29, Kessenich does not explicitly teach the first communication network is a wireless communication network.

However Wireless teaches a wireless network (pg 1, what is a wireless LAN). It would have been obvious to the person of ordinary skill in the art at the time of the invention to combine teachings of Kessenich and Wireless because teaching of Wireless to incorporate wireless communications network would improve the efficiency of Kessenich's system by allowing for ease of installation and convenience (see Wireless, pg 5, "Advantages of Wireless LAN").

***Response to Arguments***

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25. In the response, the Applicant argued in substance that Kessenich does not teach or suggest selection means for selecting a first processing unit based on the first keyword and a second processing unit based on the second keyword.

In response to Applicant's arguments, Kessenich teaches the current limitation as amended. Specifically, Kessenich discloses a efficient distributed system of searching user queries. The system comprises several key components, the users, the database servers and actual databases themselves, it should be noted that all three key components can operate on one or more distributed components, see Col. 6, lines 8-15; Col. 4, lines 23-27, lines 55-65. The user enters various keyword queries, where each keyword entry can be different keywords, through the interface component 416 on Fig 4, said keyword query will then be processed by the database server multi-threaded processes, Col. 14, lines 40-55, the server processes will match up / select the appropriate user keyword query / user processes to the corresponding database(s) for efficient data access/retrieval, see Col. 10, lines 45-67, the examiner is interpreting the corresponding database(s) as the multiple processing units. One of the key embodiment in Kessenich is the efficiency of data access from the databases, to this end, Kessenich teaches database access is done through a series of hash/keyword/tokens, the keywords are matched up with the hash table data structure to efficiently locate the corresponding database file, which is located at a remote database. Thus, Kessenich teaches the claimed subject matter.

### *Conclusion*

26. **THIS ACTION IS MADE FINAL.** Applicant is reined of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

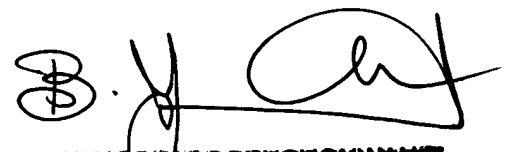
27. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents and publications are cited to further show the state of the art with respect to "Information Delivery System, Method For Information Delivery, Service Product And Use Of Service Product".

- i. US 6092114 Shaffer et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chad Zhong whose telephone number is (571)272-3946. The examiner can normally be reached on M-F 7:15 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAROENCHONWANIT, BUNJOB can be reached on (571)272-3913. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
**BUNJOB JAROENCHONWANIT**  
**PRIMARY EXAMINER**

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October 11, 2005